III. *The* Immerſions *and* Emerſions *of the four* Satellites *of* Jupiter, *for the Year* 1738. *computed to the Meridian of the* Royal Obſervatory *at* Greenwich, *by* James Hodgſon, *F. R. S. and Maſter of the Royal Mathematical School at* Chriſt's Hoſpital, London.

ECLIPSES *of the firſt* Satellite *of* JUPITER.

D.	H.	M.		D.	H.	M.		D.	H.	M.	
	JANUARY.				FEBRUARY.				MARCH.		
	Emerſions.				Emerſions.						
3	5	16	M	2	7	21	M	On the 15th of March Jupiter and the Sun will be in Conjunction.			
4	11	45	A	4	1	50	M				
6	6	13	A	5	8	19	A				
8	0	41	A	7	2	48	A				
10	7	10	M	9	9	17	M				
12	1	38	M	11	3	46	M				
13	8	6	A	12	10	15	A		APRIL.		
15	2	35	A	14	4	44	A				
17	9	3	M	16	11	13	M		Immerſions.		
19	3	32	M	18	5	42	M				
20	10	0	A	19	12	11	A	10	11	38	M
22	4	29	A	21	6	41	A	12	6	7	M
24	10	57	M	23	1	10	A	14	0	36	M
26	5	26	M	25	7	39	M	15	7	5	A
27	11	55	A	27	2	8	M	17	1	34	A
29	6	24	A					19	8	3	M
31	0	53	A					21	2	32	M

ECLIPSES *of the firſt* Satellite *of* JUPITER.

D.	H.	M.	
22	9	1	A
24	3	30	A
26	9	58	M
28	4	27	M
29	10	56	A

MAY.

Immerſions.

1	5	24	A
3	11	53	M
5	6	22	M
7	0	50	M
8	7	19	A
10	1	47	A
12	8	16	M
14	2	44	M
15	9	13	A
17	3	41	A
19	10	9	M
21	4	38	M
22	11	6	A
24	5	34	A
26	0	3	A
28	6	31	M
30	0	59	M
31	7	27	A

JUNE.

Immerſions.

2	1	55	A
3	20	24	A
6	2	52	M
7	9	20	A
9	3	48	A
11	10	16	M
13	4	44	M
14	11	13	A
16	5	41	A
18	0	9	A
20	6	37	M
22	1	5	M
23	7	34	A
25	2	2	A
27	8	30	M
29	2	59	M
30	9	27	A

JULY.

Immerſions.

2	3	55	A
4	10	24	M
6	4	52	M
7	11	20	A
9	5	49	A
11	0	17	A
13	6	46	M
15	1	14	M
16	7	42	A
18	2	11	A
20	8	40	M
22	3	8	A
23	9	37	A
25	4	6	A
27	10	34	M
29	5	3	M
30	11	32	A

AUGUST.

Immerſions.

1	6	1	A
3	0	29	A
5	6	58	M
7	1	27	M
8	7	56	A
10	2	25	A
12	8	54	M
14	3	23	M
15	9	52	A
17	4	21	A
19	10	50	M
21	19	5	M
24	6	18	A
26	0	47	A

ECLIPSES *of the firſt* Satellite *of* JUPITER.

D.	H.	M.	
28	7	16	M
30	1	45	M
31	8	14	A
	SEPTEMBER.		
	Immerſions.		
1	2	44	A
4	9	13	M
6	3	42	M
7	10	11	A
9	4	40	A
11	11	10	M
13	5	39	M
15	0	8	M
16	6	37	A
18	1	7	A
20	7	36	M
22	2	5	M
23	8	34	A
25	3	3	A
27	9	32	M
29	4	2	M
30	10	11	A
	OCTOBER.		
	Immerſions.		
2	5	0	A
4	11	29	M
6	5	58	M
	Emerſions.		
8	2	36	M
9	9	5	A
11	3	34	A
13	10	2	M
15	4	31	M
16	11	0	A
18	5	29	A
20	11	58	M
22	6	27	M
24	0	56	M
25	7	24	A
27	1	53	A
29	8	22	M
31	2	50	M
	NOVEMBER.		
	Emerſions.		
1	9	19	A
3	3	47	A
5	10	16	M
7	4	44	M
8	11	13	A
10	5	41	A
12	0	9	A
14	6	38	M
16	1	6	M
17	7	34	A
19	2	2	A
21	8	30	M
23	2	59	M
24	29	27	A
26	3	55	A
28	10	23	M
30	4	55	M
	DECEMBER.		
	Emerſions.		
1	11	19	A
3	5	47	A
5	0	15	A
7	6	43	M
9	1	11	M
10	7	39	A
12	2	7	A
14	8	35	M
16	3	3	M
17	9	31	A
19	3	59	A
21	10	27	M
23	4	56	M
24	11	23	A
26	5	51	A
28	0	19	A
30	6	48	M

ECLIPSES *of the ſecond* Satellite *of* JUPITER.

D.	H.	M.	
	JANUARY.		
	Emerſions.		
2	0	59	M
5	2	17	A
9	3	34	M
12	4	52	A
16	6	9	M
19	7	27	A
23	8	45	M
26	10	4	A
30	11	22	M
	FEBRUARY.		
	Emerſions.		
3	0	41	M
6	1	59	A
10	3	18	M
13	4	37	A
18	5	56	M
20	7	14	A
24	8	34	M
27	9	54	A
	MARCH.		

On the 15th of March Jupiter and the Sun will be in Conjunction.

D.	H.	M.	
	APRIL.		
	Immerſions.		
11	11	6	M
15	0	25	M
18	1	44	A
22	3	3	M
25	4	21	A
29	5	40	M
	MAY.		
	Immerſions.		
2	6	58	A
6	8	16	M
9	9	34	A
13	10	52	M
17	0	10	M
20	1	27	A
24	2	45	M
27	4	2	A
31	5	20	M
	JUNE.		
	Immerſions.		
3	6	37	A
7	7	55	M
10	9	12	A
14	10	29	M

D.	H.	M.	
17	11	46	A
21	1	4	A
25	2	21	M
28	3	39	A
	JULY.		
	Immerſions.		
1	16	56	A
5	6	14	A
9	7	31	M
12	8	49	A
16	10	7	M
19	11	25	A
23	0	44	A
27	2	2	M
30	3	20	A
	AUGUST.		
	Immerſions.		
3	4	39	M
6	5	58	A
7	7	16	A
13	8	35	A
17	9	54	M
20	11	13	A
24	0	33	A
28	1	52	M
31	3	11	A

SEPTEMBER.

ECLIPSES *of the ſecond* Satellite *of* JUPITER.

D.	H.	M.	
	SEPTEMBER.		
	Immerſions.		
4	4	31	M
7	5	50	A
11	7	9	M
14	8	29	A
18	9	48	M
21	11	7	A
25	0	27	A
29	1	46	M
	OCTOBER.		
	Immerſions.		
2	3	5	A
6	4	24	M
9	8	17	A
13	9	36	M
16	10	54	A
20	0	13	A
24	1	31	M
31	4	8	M
	NOVEMBER.		
	Emerſions.		
3	5	26	A
7	6	43	M
10	8	1	A
14	9	19	M
17	10	36	A
21	11	53	M
26	1	10	A
28	2	27	A
	DECEMBER.		
	Emerſions.		
2	3	44	M
5	5	1	A
9	6	18	M
12	7	35	A
16	8	52	M
19	10	9	A
23	11	26	M
27	0	43	M
30	2	0	A

Eclipses *of the third* Satellite *of* Jupiter.

D.	H.	M.		D.	H.	M.		D.	H.	M.	
January.				**March.**				**May.**			
Immerſions.				Immerſions.				Immerſions.			
8	11	48	M	March the 15th Jupiter and the Sun will be in Conjunction.				3	4	34	M
15	3	48	A					10	8	35	M
22	7	49	A					17	0	36	A
								24	4	36	A
Emerſions.				Emerſions.				31	8	36	A
8	2	39	A					Emerſions.			
15	6	38	A					3	7	9	M
22	10	38	A					10	11	10	M
30	2	39	M					17	3	9	A
February.				**April.**				24	7	9	A
Immerſions.				Immerſions.				31	11	8	A
				11	4	27	A	**June.**			
				18	8	30	A	Immerſions.			
				26	0	33	M	8	0	36	M
				Emerſions.				15	4	35	M
								22	8	35	M
								29	0	35	A
Emerſions.								Emerſions.			
6	6	41	M					8	3	6	A
13	10	43	M					15	7	5	M
20	2	45	A					22	11	4	M
27	6	48	A					29	3	3	A

Eclipses *of the third* Satellite *of* Jupiter.

D.	H.	M.		D.	H.	M.		D.	H.	M.	
	July.				September.				November.		
	Immerſions.				Immerſions.				Immerſions.		
6	4	35	A	2	0	53	M	5	1	18	A
13	8	36	A	9	4	57	M	12	5	18	A
21	0	37	M	16	9	0	M	19	9	18	A
28	4	38	M	23	1	4	A	27	1	17	M
				30	5	6	A				
	Emerſions.								Emerſions.		
					Emerſions.						
6	7	3	A					5	3	33	A
13	11	2	A	2	3	14	M	12	7	33	A
21	3	2	M					19	11	32	A
28	7	3	M					27	3	31	M
	August.								December.		
					October.						
	Immerſions.				Immerſions.				Immerſions.		
4	8	40	M					4	5	16	M
11	0	43	A					11	9	14	M
18	4	46	A	7	9	11	A	18	1	13	A
25	8	49	A					25	5	12	A
	Emerſions.								Emerſions.		
					Emerſions.						
4	11	5	M					4	7	29	M
11	3	6	A					11	11	28	M
18	7	9	A	7	11	28	A	18	3	26	A
25	11	11	A	15	3	30	M	25	7	24	A
				22	7	32	M				
				29	11	33	M				

January the 1*ſt*, at 8 h. 28 m. in the Evening, the fourth *Satellite* of *Jupiter* will Immerge into the Shadow, and at 9 h. 49 m. it will Emerge out of the Shadow.

Again, on the 18*th* Day there will be an Immerſion at 2 h. 55 m. in the Afternoon, and at 3 h. 48 m. the Emerſion will happen.

Again, on the 4*th* of *February*, at 9 h. 31 m. in the Morning, the fourth *Satellite* will Immerge into the Shadow of *Jupiter*, and at 9 h. 44 m. the ſame Morning, it will Emerge out of the Shadow.

And after this Time, the fourth *Satellite* will paſs wide of the Shadow till the 24*th* Day of *June* 1740; when the Immerſion will happen at 8 h. 43 m. in the Evening, and the Emerſion at 10 h. 15 m. the ſame Evening.